





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Vignina 22313-1450 www.nspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,175	03/01/2002	Bryon E. Petersen	A32212-PCT USA	1973
21003	7590 05/07/2003			
BAKER & B			EXAMI	NER
30 ROCKEFE NEW YORK,	LLER PLAZA NY 10112		NGUYEN, QUANG	
			ART UNIT	PAPER NUMBER
			1636	<u> </u>
			DATE MAILED: 05/07/2003	7

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
	•	09/914,175	PETERSEN ET AL.
	Office Action Summary	Examiner	Art Unit
		Quang Nguyen, Ph.D.	1636
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with	the correspondence address
THE - Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIC nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication of period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by streply received by the Office later than three months after the mad patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTHS atule, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).
· 1)□	Responsive to communication(s) filed on		
2a) <u></u> □	This action is FINAL . 2b)	This action is non-final.	
3) <u>□</u> Dispositi	Since this application is in condition for all closed in accordance with the practice und on of Claims	owance except for formal matter der <i>Ex parte Quayle</i> , 1935 C.D.	rs, prosecution as to the merits is 11, 453 O.G. 213.
4)⊠	Claim(s) 1-24 is/are pending in the applica	tion.	
	4a) Of the above claim(s) is/are with	drawn from consideration.	
5)	Claim(s) is/are allowed.		
6)[Claim(s) is/are rejected.		
7)	Claim(s) is/are objected to.		
8)	Claim(s) <u>1-24</u> are subject to restriction and/	or election requirement.	
	on Papers	r	
9) 🗀 🗀	The specification is objected to by the Exam	iner.	
10) 🗌 -	Γhe drawing(s) filed on is/are: a)□ ac	ccepted or b) objected to by the	Examiner.
	Applicant may not request that any objection to	the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).
11) 🔲 🗆	The proposed drawing correction filed on	is: a)□ approved b)□ disa	pproved by the Examiner.
	If approved, corrected drawings are required in	reply to this Office action.	
12) 🔲 🧻	The oath or declaration is objected to by the	Examiner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. § 1	19(a)-(d) or (f).
a)[☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority docume	ents have been received.	
	2. Certified copies of the priority docume	ents have been received in Appl	ication No
	3. Copies of the certified copies of the p application from the International ee the attached detailed Office action for a I	Bureau (PCT Rule 17.2(a)).	•
14) 🗌 A	cknowledgment is made of a claim for dome	estic priority under 35 U.S.C. § 1	19(e) (to a provisional application)
a)	☐ The translation of the foreign language cknowledgment is made of a claim for dome	provisional application has been	received.
Attachment			
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152) .
Patent and Tra O-326 (Rev		Action Summary	Part of Paper No. 9

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DETAILED ACTION

Claims 1-24 are pending in the present application, and they are subjected to the following restrictions.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-5 and 11-13, drawn to a method for stimulating liver regeneration in a subject having a liver disorder comprising <u>administering of bone marrow cells</u>, including bone marrow cells that are genetically engineered to express a <u>functionally active protein</u>, to said <u>subject in an amount sufficient to result in the production of hepatocytes</u>, bile ductal cells and/or oval cells.

Group II, claims 6-10, 11-12, 14 and 20-24, drawn to a method for stimulating liver regeneration in a subject having a liver disorder comprising the <u>administration of enriched oval cells</u>, including enriched oval cells that are genetically engineered to express a functionally active protein, to a subject in an amount sufficient to result in the production of hepatocytes, bile ductal cells and/or oval cells; a method for enriching for oval cells and a composition comprising an enriched population of oval cells.

Group III, claims 15-19, drawn to a method for **stimulating pancreatic regeneration in a subject** having a pancreatic disorder comprising <u>administering of bone marrow cells, including bone marrow cells that are genetically engineered to express a functionally active protein, to said subject in an amount sufficient to result in the production of pancreatic cells.</u>

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The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The method of each Group is materially different and plurally independent from the method of any other Group because each is practiced with materially different process steps (e.g., different sources or types of cells being administered to a subject and different target organs such as liver regeneration and pancreatic regeneration); the special steps are the special technical features that distinguish each method from the others. As such, a method for stimulating liver regeneration in a subject having a liver disorder using an effective amount of bone marrow cells of Group I, a method for stimulating liver regeneration in a subject having a liver disorder using an effective amount of enriched oval cells of Group II, and a method for stimulating pancreatic regeneration in a subject having a pancreatic disorder using an effective amount of bone marrow cells of Group III are materially different methods which require different technical considerations, reagents or starting materials (e.g., subject having a liver disorder, subject having a pancreatic disorder, bone marrow cells and enriched oval cells,) and endpoints to achieve different goals (e.g., to treat a subject with a liver disorder and to treat a subject with a pancreatic disorder). Because the process steps do not share the same or a corresponding technical feature, unity of invention is lacking.

Because these inventions are distinct for the reasons set forth above, it would be unduly burdensome for the examiner to search and/or consider the patentability of all of

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the inventions in a single patent application. Therefore, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17 (h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang Nguyen, Ph.D., whose telephone number is (703) 308-8339.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's mentor, Gerald Leffers, Jr., Ph.D., may be reached at (703) 305-6232, or SPE, Remy Yucel, Ph.D., at (703) 305-1998.

Quang Nguyen, Ph.D.

PATENT EXAMINE

A.4.1676